

WHAT IS CLAIMED IS:

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1. A three-dimensional object display system for displaying a plurality of objects in an apparent three-dimensional space display according to a plurality of object attributes used as criteria for selecting one or more objects, the system comprising:

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an object data storage unit that stores information corresponding to the plurality of object attributes and to display data for each object; and
a three-dimensional space data production unit that searches the object data storage unit, calculates coordinate values for three-dimensional space in which to position each object based on the plurality of object attribute values selected from among the object attributes for each object according to results of the search of the object data storage unit, and produces three-dimensional space data for displaying each object according to results of the calculation of the coordinate values for the three-dimensional space.

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2. The three-dimensional object display system as claimed in claim 1, wherein the three-dimensional space data production unit encloses each of the objects positioned in the apparent three-dimensional space display within a frame of a uniform size and further reduces and enlarges the frame and the objects enclosed therein depending on a distance of the three-dimensional space from a

vantage point outside the three-dimensional space.

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3. The three-dimensional object display system as claimed in claim 1, wherein the three-dimensional space data production unit disperses the positional coordinates of each object positioned within the apparent three-dimensional space display in a case in which such object data would otherwise be displayed in an overlapped state because the objects have identical or contiguous coordinates.

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4. The three-dimensional object display system as claimed in claim 1, wherein the three-dimensional space data production unit comprises:

a dividing unit that divides the three-dimensional space into movable planes or solid spaces; and

a display unit that selects and highlights object data positioned within the divided planes or solid spaces.

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5. A three-dimensional object display system comprising:

a server that provides object information, the server comprising:

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an object data storage unit that stores information corresponding to the plurality of object attributes and to

display data for each object; and
a three-dimensional space data
production unit that searches the object
data storage unit, positions the object
5 data in three-dimensional space by
matching values for three types of object
attributes selected from among a plurality
of object attributes stored in the object
data storage unit for each object to each
10 of three coordinate axes in three-
dimensional space, and displays the object
according to a predetermined vantage
point; and
a client terminal that selects an object
15 from the object information provided, the client
comprising:
a notifying unit that selects the
object attributes of a displayed object
and notifies the server;
20 a receiving unit that receives
the three-dimensional space data produced
by the server; and
a vantage point changing unit
that changes the vantage point with
25 respect to the displayed three-dimensional
space,
the server and the client terminal being
connected to the system via a network.

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6. A three-dimensional object display
method for displaying a plurality of objects in an
35 apparent three-dimensional space display according
to a plurality of object attributes used as criteria
for selecting one or more objects, the method

comprising the steps of:

searching an object data storage unit that stores information corresponding to the plurality of object attributes and to display data for each
5 object; and

producing three-dimensional space data for positioning each object by calculating coordinate values for the three-dimensional space in which to position each object based on the plurality of
10 object attribute values selected from among the object attributes for each object according to results of the search of the object data storage unit so as to display each object according to results of the calculation of the coordinate values
15 for the three-dimensional space.

20 7. A computer-readable medium storing program code for causing a computer to display a plurality of objects in an apparent three-dimensional space display according to a plurality of object attributes used as criteria for selecting
25 one or more objects, the program comprising:

a first program code unit searching an object data storage unit that stores information corresponding to the plurality of object attributes and to display data for each object; and

30 a second program code unit for producing three-dimensional space data for positioning each object by calculating coordinate values for the three-dimensional space based on the plurality of object attribute values selected from among the
35 object attributes for each object according to results of the search of the object data storage unit so as to display each object according to

results of the calculation of the coordinate values for the three-dimensional space.

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8. A computer-implemented method for causing a plurality of objects to be displayed in an apparent three-dimensional space display according to a plurality of object attributes used as criteria for selecting one or more objects, the method comprising the steps of:

searching an object data storage unit that stores information corresponding to the plurality of object attributes and to display data for each object; and

producing three-dimensional space data for positioning each object by calculating coordinate values for the three-dimensional space in which to position each object based on the plurality of object attribute values selected from among the object attributes for each object according to results of the search of the object data storage unit so as to display each object according to results of the calculation of the coordinate values for the three-dimensional space.

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9. A computer specially configured by executing program code stored on a computer-readable medium for causing a plurality of objects to be displayed in an apparent three-dimensional space display according to a plurality of object attributes used as criteria for selecting one or more objects, the program comprising:

a first program code unit searching an object data storage unit that stores information corresponding to the plurality of object attributes and to display data for each object; and

- 5 a second program code unit for producing three-dimensional space data for positioning each object by calculating coordinate values for the three-dimensional space based on the plurality of object attribute values selected from among the
- 10 object attributes for each object according to results of the search of the object data storage unit so as to display each object according to results of the calculation of the coordinate values for the three-dimensional space.

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